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Biodegradation: Natural and Synthetic Materials

APPLIED BIOLOGY



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Biodegradation Natural And Synthetic Materials

**Jan Gajdziok, Roman Goněc, David
Vetchý**



Biodegradation Natural And Synthetic Materials:

Biodegradation W.B. Betts, 2012-12-06 Two major problems encountered as we approach a new century are the availability of resources for chemicals and energy and environmental pollution This book highlights the importance of biotransformation as a solution to these problems and considers traditionally separate areas as one interdependent discipline in terms of the underlying mechanistic biochemistry and the research techniques employed The provision of resources has largely centred around non renewable materials especially oil Diminishing reserves of these together with uncertainties of supply and cost have stimulated great interest in renewable resources These are largely lignocellulosic materials e g wood and straw which are available through natural biomass turnover farming and forestry and from wastes generated by industrial processes An excellent example is that of kraft lignin a by product of pulp and paper production amounting to 60 million tonnes per annum and which is largely wasted by burning or landfilling This aromatic polymer has enormous potential as a feedstock to the chemical industry Environmental pollution is no longer accepted as inevitable for a technological society Over the past decade there has been a tremendous increase in awareness of the effects of pollution and public pressure has influenced both industry and government However to be realistic it is not possible to replace all processes generating polluting wastes with clean alternatives Instead treatments of pollution both at source and after an incident are alternatives in many instances and a great deal of emphasis is currently being placed on these Handbook of Biopolymer-Based Materials Sabu Thomas, Dominique Durand, Christophe Chassenieux, P. Jyotishkumar, 2013-04-16 This first systematic scientific reference in the area of micro and nanostructured biopolymer systems discusses in two volumes the morphology structure dynamics properties and applications of all important biopolymers as well as their blends composites interpenetrating networks and gels Selected leading researchers from industry academia government and private research institutions around the globe comprehensively review recent accomplishments in the field They examine the current state of the art new challenges and opportunities discussing all the synthetic routes to the generation of both micro and nano morphologies as well as the synthesis characterization and application of porous biopolymers An outstanding resource for anyone involved in the field of eco friendly biomaterials for advanced technologies Biological Approaches to Regenerative Soil Systems Norman Uphoff, Janice Thies, 2023-10-27 Agriculture in the 21st century will need considerable modification to remain both productive and sustainable Greater production is needed to meet the needs of our still growing populations and to combat hunger and poverty Declines in soil health and the pollution of water sources are making many of our production systems less tenable These adverse trends are exacerbated more and more by the impacts of climate change There are fortunately alternative methods available for agricultural practice that can countervail these constraints Biological Approaches to Regenerative Soil Systems brings together the work of both researchers and practitioners to map out better approaches to contemporary agriculture that draw upon both old and new knowledge It presents the science that underlies

more biologically driven strategies as well as contemporary innovative experiences in diverse parts of the world Both accepted research and these varied experiences encourage confidence that these approaches not relying primarily on the introduction of new varieties and on exogenous inputs can succeed This book updates and revises a preceding volume Biological Approaches to Sustainable Soil Systems published by CRC Press in 2006 So much has been learned and done on this subject in the past decade and a half that a second edition was warranted For instance the first edition was published knowledge about plant soil microbiomes which are a frequent focus in this book has mushroomed Because sustainability is a broad term and an end state the editors preferred to assemble expertise regarding regenerative agriculture which is concerned with the means for achieving sustainability The concept of regenerative soil systems entities that are more complex and multifaceted than soil alone also incorporates a concern with having more resilient agricultural systems ones that are better able to cope with the multiple stresses of climate change that are foreseen for the decades ahead The book s chapters representing a wide range of disciplines were contributed by 84 scientists and practitioners from 20 countries Although they come from persons with in depth knowledge of their respective fields the chapters are written to be accessible to readers who are not trained in the specialized subjects Taken together the chapters provide students researchers practitioners planners and policy makers with a comprehensive understanding of both the science and the steps needed to regenerate and sustain soil systems around the world for the long term benefit of humankind and the environment

Medical Textiles from Natural Resources Md. Ibrahim H. Mondal,2022-06-15 Medical Textiles from Natural Resources provides systematic and comprehensive coverage of the fundamentals production methods processing techniques characterization techniques properties and applications of medical textile materials from natural resources Medical textiles offer a variety of technical and functional properties valued in medical and healthcare sectors often relating to hygiene As medical textile products remain in close contact with the human body the fibre must have characteristics such as biological compatibility biological degradability permeability and nontoxicity Only materials from natural renewable sources have such characteristics This book provides the latest information on a wide range of medical applications from single suture and wound dressings to implants and tissue scaffolds It also offers a systematic review of the manufacture properties and applications of technical textiles for medical use Explains the latest technologies related to fibre extraction from natural sources chemical treatments weave constructions fabric finishes and coatings Describes innovative applications of nanomaterials in the treatment of textile fabric and the utilization of carbohydrate polymers in the preparation of nanoparticles deposited in nonwoven fabrics Helps product designers to find appropriate materials from natural resources with the characteristics of biodegradability renewability biocompatibility and nontoxicity **Turning the Tide on Trash** ,1992 Turning the Tide on Trash is an interdisciplinary guide designed to provide maximum flexibility in the classroom The curriculum guide is designed for use either as a primary tool or to supplement work in other subject areas Three teaching

units develop concepts on 1 The definition characteristics and sources of marine debris 2 The effects of marine debris and 3 Developing solutions and spreading the word Units contain questions regarding the concepts background information Facts from the Deep objectives instructions on activities vocabulary materials learning skills duration typically 40 minutes necessary reproducibles and procedures Academic subject areas encompass art language arts mathematics music science and social studies Guide appears to be directed to teachers of upper elementary and middle school students

Polyethylene-Based Biocomposites and Bionanocomposites Visakh P. M., Sigrid Lüftl, 2016-10-21 Biodegradable polymers have experienced a growing interest in recent years for applications in packaging agriculture automotive medicine and other areas One of the drivers for this development is the great quantity of synthetic plastic discarded improperly in the environment Therefore R D in industry and in academic research centers search for materials that are reprocessable and biodegradable This unique book comprises 12 chapters written by subject specialists and is a state of the art look at all types of polyethylene based biocomposites and bionanocomposites It includes deep discussion on the preparation characterisation and applications of composites and nanocomposites of polyethylene based biomaterials such as cellulose chitin starch soy protein PLA casein hemicellulose PHA and bacterial cellulose *Application of Engineering Principles and Practices In Biotechnology* Ann Rose Abraham, Leonardo Sepúlveda Torre, Tamara Tatrishvili, A.K. Haghi, 2024-09-06 This new volume reflects the multidisciplinary nature of the goals of biotechnology engineering and provides a firm foundation in the science and engineering of biological processes The book discusses the combination of both engineering and science of biological processes from wastewater treatment to tissue engineering The first part of this book discusses experimental and theoretical solutions for environmental pollution The second part covers new frontiers in bioengineering and biotechnology Part 3 illustrates the use of biotechnology and bio based routes to sustainable composites and finally case studies with detailed information are presented in the last section **Toxicological Profile for Chlorinated Dibenzo-p-dioxins**, 1998

Natural Polymers for Pharmaceutical Applications Amit Kumar Nayak, Md Saquib Hasnain, Dilipkumar Pal, 2019-10-16 In recent years many animal derived polymers have emerged as an attractive category of naturally derived polymers because of their advantageous physicochemical chemical and biological properties The important biological properties of these natural polymers derived from animals are biocompatibility and biodegradation These polymers are generally composed of repeated units of amino acids Moreover these polymers can be modified physically and or chemically to improve their biomaterial properties *Natural Polymers for Pharmaceutical Applications Volume 3 Animal Derived Polymers* looks at how these polymers can be exploited as pharmaceutical excipients in various pharmaceutical dosage forms like microparticles nanoparticles ophthalmic preparations gels implants etc The commonly used animal derived polymers used as pharmaceutical excipients are hyaluronic acid hyaluronan albumin collagen gelatin chondroitin etc [Sustainable Scaffolds-based Strategies in Tissue Engineering and Regenerative Medicine](#) Joaquim Miguel Oliveira, Joana Silva-Correia, Rui Luís Reis, 2025-07-16 This book

aims to provide a concise overview on the relevant research dealing with the design and fabrication methods of novel scaffolds considering not only the technological challenges but also the increasingly important sustainability issues In this context the vast options of sustainable biomaterials and eco friendly green methods for biomaterials synthesis and scaffold s processing techniques are discussed Importantly the recent developments in the field of scaffolds based strategies for tissue engineering and regenerative medicine applications are also provided In brief the book is divided into three main sections comprising 15 chapters as follows I Sustainable scaffold techniques and designs in tissue engineering II Natural materials and eco wastes used as sacrificial templates and III Biomedical applications It will also provide a concluding section about the Editor s opinion on the current achievements and future directions of the field This book includes the contribution of leading and multidisciplinary experts which will provide a in depth discussion on sustainable scaffolds for biomedical applications thus serving as an up to date reference for a new generation of multidisciplinary students and researchers which aim to consider the sustainability dimension in their research activities

Phenanthrene Biodegradation Kinetics in Soil Carol Ruth Johnson,1997 **Biodegradable Polymers in Pharmacy and Medicine. Classification, Chemical Structure, Principles of Biodegradation and Use** Jan Gajdziok,Roman Goněc,David Vetchý,2016-09-13 Document from the year 2016 in the subject Medicine Pharmacology Pharmacy course Pharmaceutical technology language English abstract The aim of this book is to provide a brief but comprehensive overview on the issue of biodegradable polymers The introduction chapter is followed by a description of the general characteristics of biodegradable polymers and pathways of their degradation in the human body Particular pitfalls and specifics of their various biomedical and pharmaceutical applications especially in the field of pharmaceutical technology are described in order to define the ideal carrier polymer system for specific types of therapy Finally the work presents the classification of these polymers based on the type of degradation mechanism This section also includes the chemical structure of particular polymer molecules their chemical or bio synthesis and the description of their uses in specific biomedical and pharmaceutical applications The book could be used as a textbook for students of medical and pharmaceutical sciences as well as by researchers in this field or industrial area In the past few decades biodegradable polymers have reached significant importance in fields of biomedical and pharmaceutical applications They have become preferred candidates for the manufacture of therapeutic forms for instance orthopaedics devices temporary bone screws and spins three dimensional scaffolds for tissue engineering or drug delivery systems for sustained and targeted release Each of these applications requires material with specific physical biological and chemical properties as well as specific degradation profile These polymers natural or synthetic undergo hydrolytic or enzymatic degradation which both have some advantages and disadvantages Most widely used polymer materials in biomedical applications are listed including their structure and degradation pathways **Organic Pollutants in the Environment** James W. Blackburn,1996 **Silk** Lun Bai,Guo Qiang Chen,2011-01-20 Inheritance and Innovation Modern Silk Road

Selected peer reviewed papers from the 7th China International Silk Conference on Inheritance and Innovation Modern Silk Road Sep 10 12 2010 Suzhou P R China *Microbios* ,1996 **Biodamage and Biodegradation of Polymeric Materials** Elena L Pekhtasheva,2012-08-31 The issue of biodamages comprises a wide range of scientific and practical tasks associated with protection of raw materials and products against damage by bacteria fungi insects and rodents during long term storage production transportation and operation The biodegradation is used for degradation and utilization of worn out materials and articles This research is urgent for ecology and the struggle against environmental contamination The biodamage problem is both scientifically complex and practically diverse Scientifically it is based on the knowledge of material science biology and chemistry The first objective of this book is to provide detailed information on the three interrelated parts bacteria and fungi the source of biodamages insects and rodents materials and products depredated and materials and products damaged by living organisms The most modern data on morphology and physiology of biodegrading microorganisms are presented The second objective of this book is to provide the reader with a systematisation of biological degradation on both natural and synthetic materials and products plastics textile fibres leather and fur wood and so on Problems of utilisation of polymeric wastes using microorganisms are discussed and main protection methods and technology for raw materials and semi products against biodamages are shown Practical recommendation for struggle against biodamage of materials by insects moth leather beetles wood fretters cockroaches and termites and rodents mice and rats are given Since 1960 the biodamage problem received the official status as a large international and practical direction at the junction of sciences and practice of mankind and pooling efforts of various specialists The final objective of this book is to illustrate that the problem of biodamages is very real today because it is relevant to many aspects of our everyday lives This volume is intended to be a practical guide on biodamage and biodegradation of polymeric materials and a quick reference to students and researchers from academia and the industry **Microbiology** ,1994-11 **Microbial Biotechnology in Agriculture and Aquaculture, Vol. 2** R C Ray,2005 Provides a new and authoritative account of the complex patterns of development teaching and practice in the religions of Asia With individual chapters written by specialists this volume provides clear non technical insight **Biological Degradation and Bioremediation of Toxic Chemicals** Ghulam Rasul Chaudhry,1994 In chapters written by authors on the cutting edge of investigative research Biological Degradation and Bioremediation of Toxic Chemicals thoroughly covers the range of such organisms and the use of such pathways Also described are genetic and molecular biological techniques to improve the ability of microorganisms to degrade harmful compounds including the conversion of wastes into useful products The book provides a comprehensive basis for further research indicating future directions for biotechnological applications **Recycling and Reuse of Waste Materials** Ravindra K. Dhir,Moray D. Newlands,Judith E. Halliday,2003 This volume presents part of the proceedings of two symposia held under the umbrella of Advances in Waste Management an international meeting organised by the University of Dundees Concrete Technology Unit

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